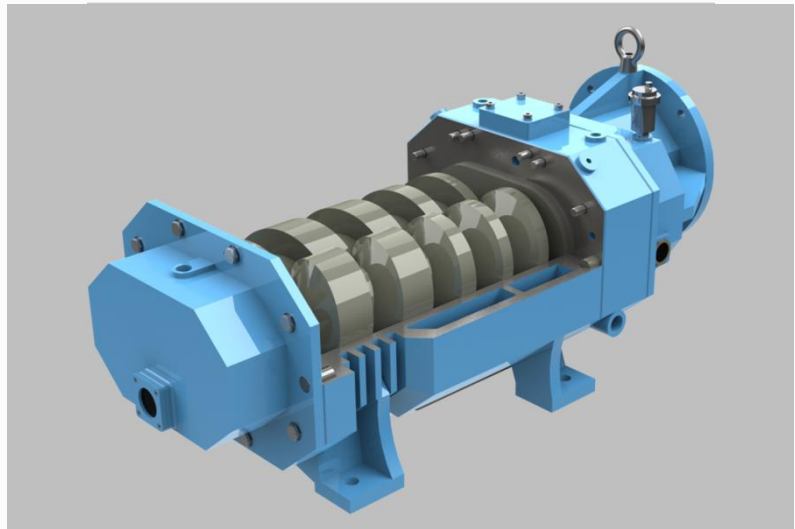


WIN Series Variable Pitch Screw Vacuum Pump

WIN-150
WIN-300
WIN-400
WIN-800
WIN-1500



Characteristics

- **Reliable seal structure**

- ✓ Mechanical Seal with Lip seal, Gas Purge seal
- ✓ High performance mechanical seal specifically designed for dry vacuum pump
- ✓ Optimum gas purge operation enhanced leak tightness



- **Spiral cooling water jacket**

- ✓ Excellent heat exchange efficiency
- ✓ Maintains optimum pump-inside temperature

- **Excellent discharge performance**

- ✓ Excellent liquid handling
- ✓ No exhaust line pulsations
- ✓ Quick exhaust structure



- **Corrosion Resistance**

- ✓ Coating material provide excellent corrosion resistance
- ✓ Process specific coatings or platings available

Advantages

- Deep Vacuum
Ultimate 0.0075 torr Vacuum degree
- Contamination of Process Stream
- Deeper Vacuum and More Flexible Operation
- No Effluent, No Pollution, No Waste Disposal Costs
- Lower Maintenance Costs
- Immediate Solvent Recovery at Pump Exhaust
- Lower Total Cost of Ownership
approx. 30% lower Power & Utilities Consumption

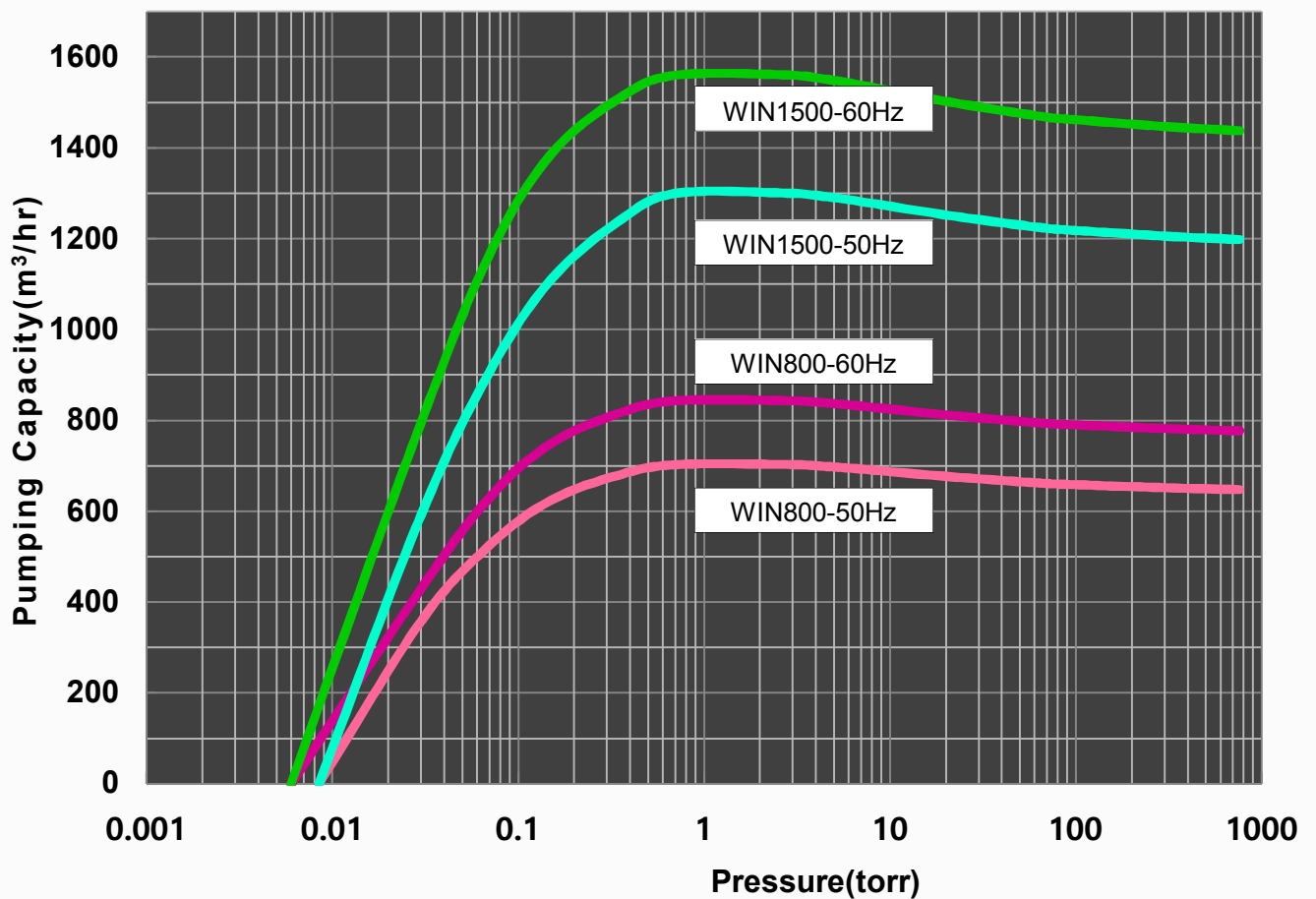
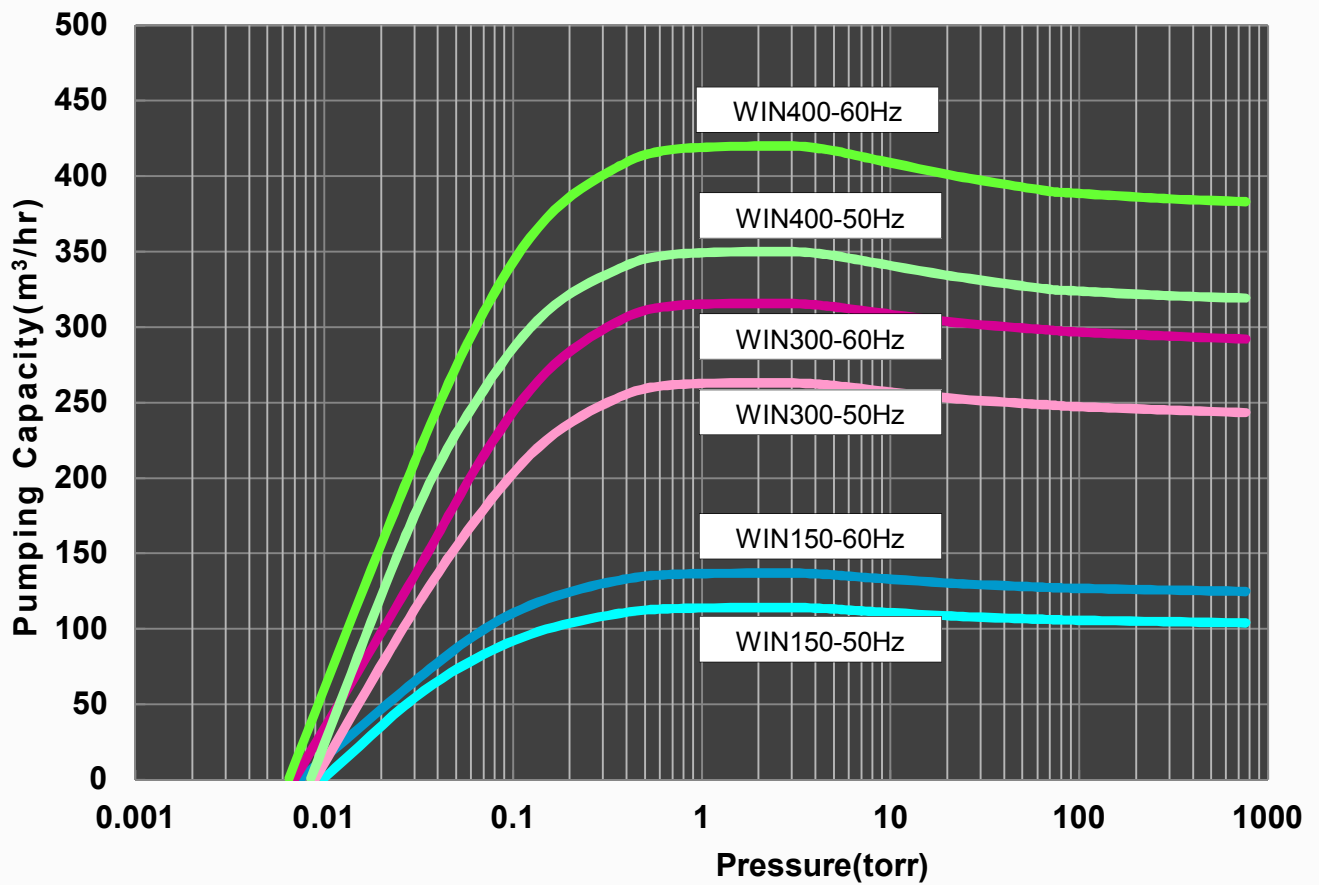
Application

- Vapor Recovery Unit (VRU)
- Solvent Recovery System
- Pharmaceutical Industry
- Chemical Industry
- Petrochemical Industry
- Food Industry
- Central Vacuum System
- Industrial Applications
- Packaging Industry
- Laboratories

Technical Data

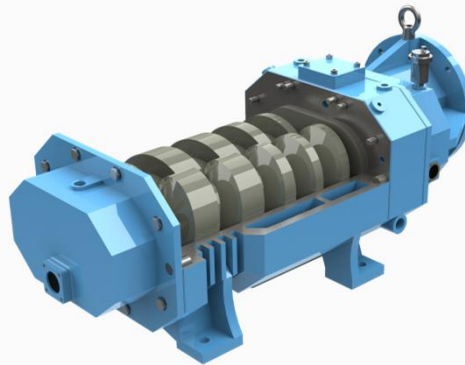
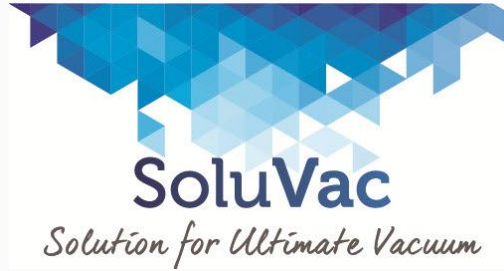
Model		WIN150	WIN300	WIN400	WIN800	WIN1500
Displacement (50/60Hz)	m ³ /hr	110 / 130	250 / 300	330 / 400	660 / 800	1250 / 1500
Ultimate pressure	torr	0.05	0.0075	0.0075	0.0075	0.0075
Motor power (50/60Hz)	kW	3.7 / 3.7	7.5/7.5	11/11	15/15	37/37
Rotation(50Hz/60Hz)	rpm	2,950 / 3,550				
Process Connection						
Inlet Connection	Special	1 ½" (40A)	2" (50A)	2 ½" (65A)	4" (100A)	5" (125A)
Outlet Connection	Special	1 ½" (40A)	1 ½" (40A)	2" (50A)	2 ½" (65A)	3" (80A)
Cooling water						
Max. Supply Pressure	Barg	7	7	7	7	7
Pressure Drop	Bar	1	1	1	1	1
Flow Rate	L/min	5~10	10~15	10~15	15~20	35~40
Temperature	°C	5~35	5~35	5~35	5~35	5~35
Connection	PT(JIS)	½"(15A)	½"(15A)	½"(15A)	½"(15A)	1"(25A)
Lubricant						
Gear & FEP Bearing		Shell T-68	Shell T-68	Shell T-68	Shell T-68	Shell T-68
REP Bearing		Mobil 1	Shell T-68	Shell T-68	Shell T-68	Mobil 1
Noise Level (50/60Hz)	dB	80 / 85	80 / 85	82 / 85	82 / 85	82 / 85
Vibration (max.)	mm/s	1.8 (4.5)	1.8 (4.5)	1.8 (4.5)	2.8 (4.5)	2.8 (4.5)
Weight(Bare Shaft)	kg	200	300	400	600	900

Pumping Speed



Material

Materials of House	
Casing	Ductile Iron(FCD 400), Internal Coating
Screws	Ductile Iron(FCD 400), External Coating
Front End Plate	Ductile Iron(FCD 400), Internal Coating
Front End Cover	Ductile Iron(FCD 400)
Rear End Plate	Ductile Iron(FCD 400)
Check Valve	Stainless steel body + Teflon Seat
Coatings	PTFE Coating : 20µm Thickness
	PFA Coating : 40µm Thickness
	PEEK Coating : 20µm Thickness
	NIFA (Nickel Plated + Teflon Coating)
	PeeFLON (PEEK + PFA modified + PFA)
	Niflor (autocatalytic composite coating nickel-PTFE)
Seal Material	
Lip Seal	PTFE & Graphite(or Polyamide) Mix in Stainless Steel
Mechanical Seal	Rotor : Stainless Steel Bellows with Carbon #5 Face
	Stator : Stainless Steel with Tungsten Carbide Coating
	O-ring : Viton or Kalrez
Oil Seal	Viton
Seal Arrangement	
HV(Suction)	Lip Seals(Single Lip Seal x 3ea)
LV(Discharge)	Lip Seal & Mechanical Seal + Gas Purge Seal
Drive End	Oil Seal
Bearings	
HV(Suction)	Roller Bearing
LV(Discharge)	Angular Double Ball Bearing
Drive End	Single Ball Bearing
Lubricant	
Gear Box	Shell Turbo Oil T68
Rear end bearing	Shell Turbo Oil T68 or Mobil 1 Synthetic Grease



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